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| APPLICATION NO.  | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO |
|--|-----------------|----------------------|-------------------------|-----------------|
| 10/750,580 12/29/2003  |                 | Robert E. Higashi    | H0004490 (1100.1226101) | 8588            |
| 128 7  | 7590 05/10/2006 |                      | EXAMINER                |                 |
| 1101121112   | LL INTERNATIONA | NGUYEN, THINH T      |                         |                 |
| 101 COLUMBIA ROAD<br>P O BOX 2245<br>MORRISTOWN, NJ 07962-2245 |                 |                      | ART UNIT                | PAPER NUMBER    |
|  |                 |                      | 2818                    |                 |
|  |                 |                      | DATE MAILED: 05/10/2006 |                 |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.  | Applicant(s)   |  |  |  |
|---|--|--|--|--|--|
|   | 10/750,580   | HIGASHI ET AL.   |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   |  |  |  |
|   | Thinh T. Nguyen  | 2818   |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with t   | he correspondence address  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).   | ATE OF THIS COMMUNICAT<br>36(a). In no event, however, may a reply lead to<br>will apply and will expire SIX (6) MONTHS<br>cause the application to become ABAND | TION. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133). |  |  |  |
| Status  |  |  |  |  |  |
| 1) Responsive to communication(s) filed on 10 M   | arch 2006.   |  |  |  |  |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.   |  |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |  |  |  |  |
| Disposition of Claims   |  |  |  |  |  |
| 4) Claim(s) 1-9 and 31-51 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-9,31-51 are subject to restriction and  | vn from consideration.   |  |  |  |  |
| Application Papers  |  |  |  |  |  |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.  | epted or b) objected to by t<br>drawing(s) be held in abeyance.<br>ion is required if the drawing(s) is  | See 37 CFR 1.85(a).<br>s objected to. See 37 CFR 1.121(d).                                 |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list   | s have been received.<br>s have been received in Appli<br>rity documents have been rec<br>u (PCT Rule 17.2(a)).  | cation No eived in this National Stage   |  |  |  |
| Attachment(s)   |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892)   |  | mary (PTO-413)<br>ail Date   |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Pager No(c)/Mail Date  2) Pager No(c)/Mail Date  2) Pager No(c)/Mail Date  2) Pager No(c)/Mail Date  2) Pager No(c)/Mail Date  3) Pager No(c)/Mail Date  3) Pager No(c)/Mail Date  3) Pager No(c)/Mail Date  4) Pager No(c)/Mail Date |  | nal Patent Application (PTO-152)   |  |  |  |

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## **DETAILED ACTION**

1. This is in response to Applicant communication on 3/10/2006.

## Election/ Restriction

Claims 1-9, 31-51 are pending in this application.

Applicant amendment to claim 1 and adding new claims 31-51 required new ground for restriction requirement.

Claims 1-9, 31-51 directed to semiconductor device assembly are restricted as follows:

2. The claims are directed to the following patently distinct species of the claimed invention:

A/ Species A. Claims 1-9 and as best as can be understood is described in claim 1 is directed to an integrated package with all the technical features as recited in claim 1.

B/Species B. Claims 31-33 as best as can be understood is described in claim 31 is directed to an integrated package with all the technical features as recited in claim 31.

C/ Species C. Claims 34-39 as best as can be understood is described in claim 34 is directed to an integrated package with all the technical features as recited in claim 34.

D/ Species D. Claims 40-45 as best as can be understood is described in claim 40 is directed to an integrated package with all the technical features as recited in claim 40.

E/ Species E. Claims 46-51 as best as can be understood is described in claim 46 is directed to an integrated package with all the technical features as recited in claim 46.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 2. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

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## **CONCLUSION**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790.

The examiner can normally be reached on 9.00 AM 6.00 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANDY HUYNH can be reached on (571) 272-1781. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval [ PAIR ] system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thinh T Nguyen

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